Fig. 1

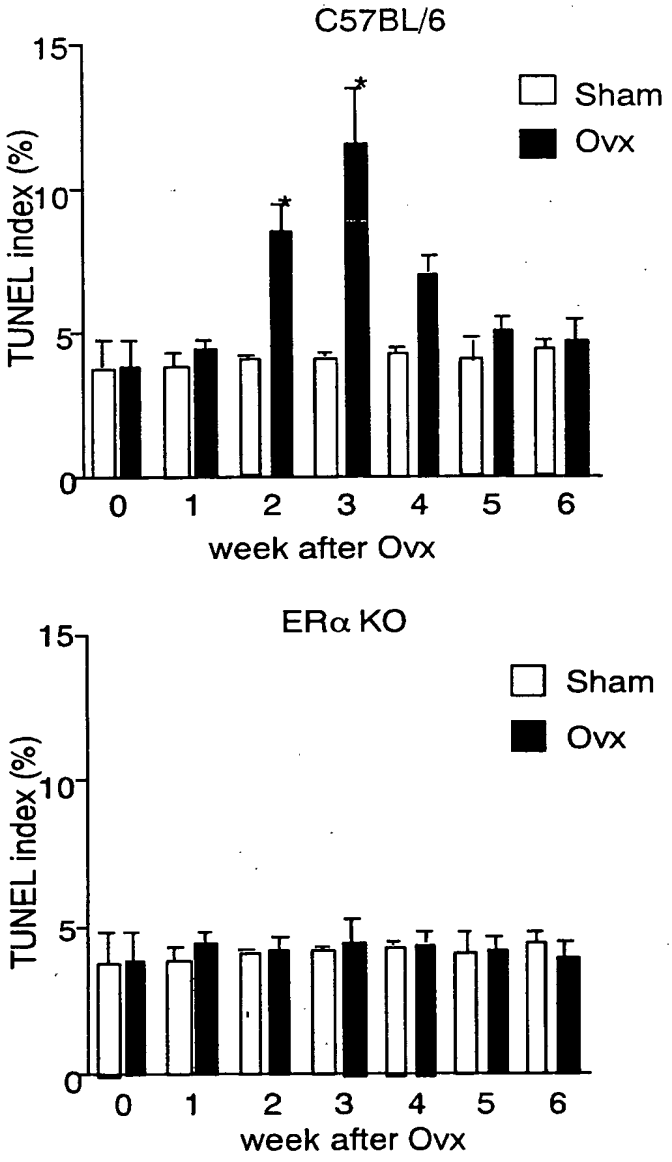
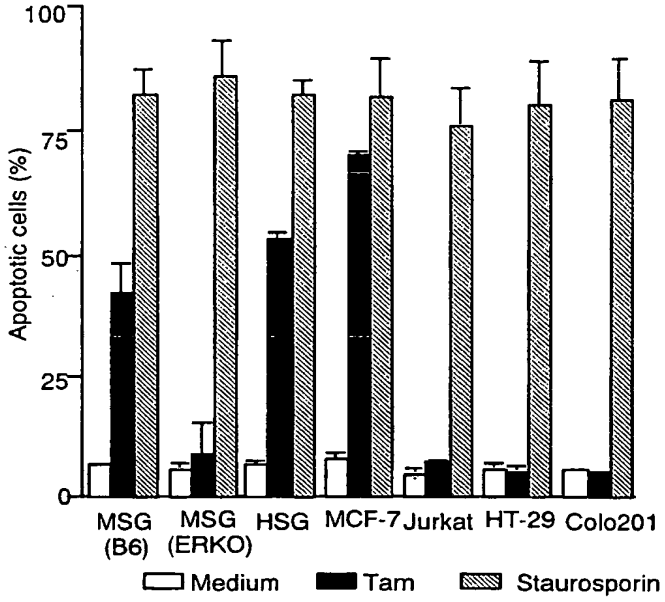

C57BL/6
Sham
Ovx
TUNEL index (%)
15
10
5
0
0 1 2 3 4 5 6
week after Ovx
ERα KO
Sham
Ovx
TUNEL index (%)
15
10
5
0
0 1 2 3 4 5 6
week after Ovx

Fig. 2


100
75
50
25
0
Apoptotic cells (%)
MSG (B6)
MSG (ERKO)
HSG
MCF-7
Jurkat
HT-29
Colo201
Medium
Tam
Staurosporin

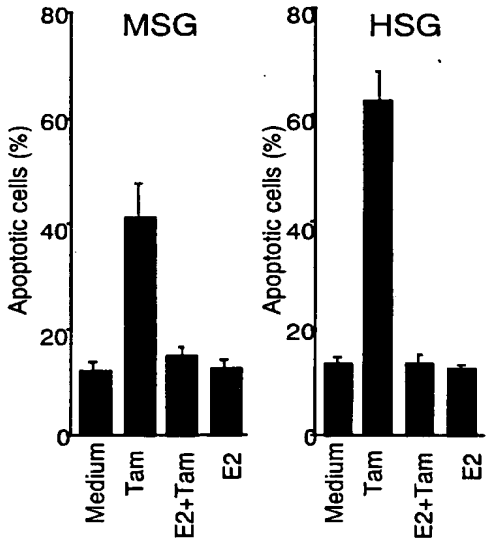

MSG
HSG
80
60
40
20
0
Apoptotic cells (%)
Medium
Tam
E2+Tam
E2

Fig. 3

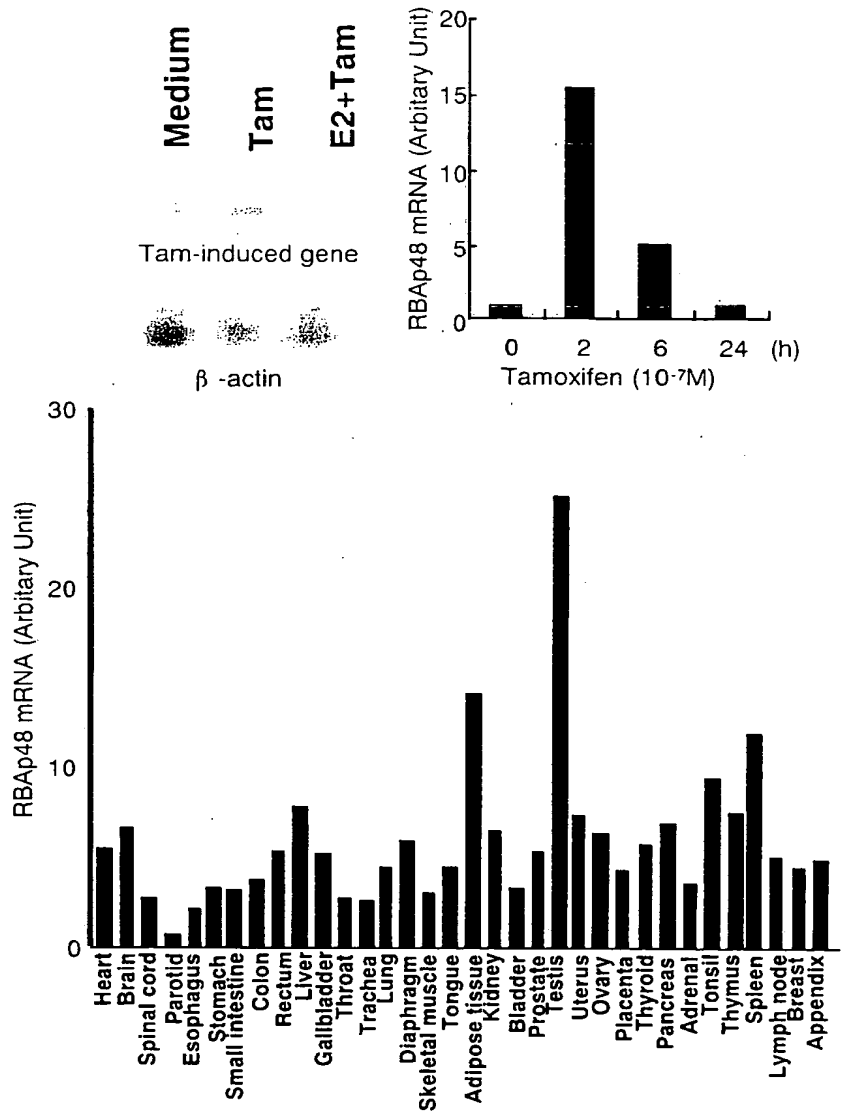

Medium
Tam
E2+Tam
Tam-induced gene
β -actin
RBAp48 mRNA (Arbitary Unit)
20
15
10
5
0
0
2
6
24
(h)
Tamoxifen (10-7M)
RBAp48 mRNA (Arbitary Unit)
30
20
10
0
Heart
Brain
Spinal cord
Parotid
Esophagus
Stomach
Small intestine
Colon
Rectum
Liver
Gallbladder
Throat
Trachea
Lung
Diaphragm
Skeletal muscle
Tongue
Adipose tissue
Kidney
Bladder
Prostate
Testis
Uterus
Ovary
Placenta
Thyroid
Pancreas
Adrenal
Tonsil
Thymus
Spleen
Lymph node
Breast
Appendix

Fig. 4

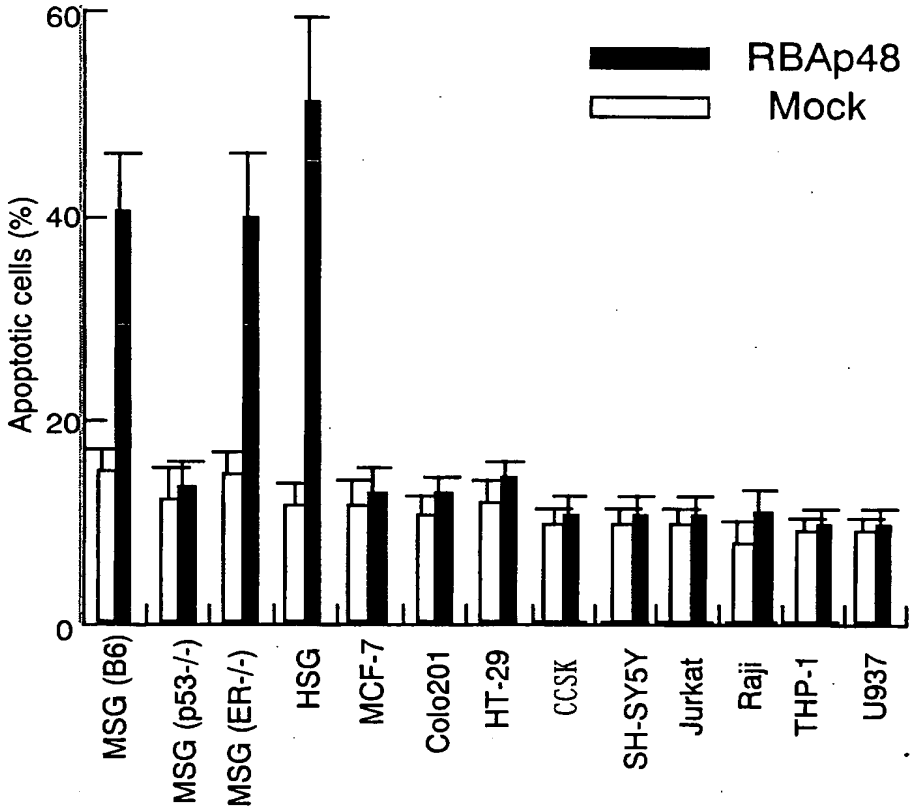

60
40
20
0
Apoptotic cells (%)
RBAp48
Mock
MSG (B6)
MSG (p53-/-)
MSG (ER-/-)
HSG
MCF-7
Colo201
HT-29
CCSK
SH-SY5Y
Jurkat
Raji
THP-1
U937

Fig. 5

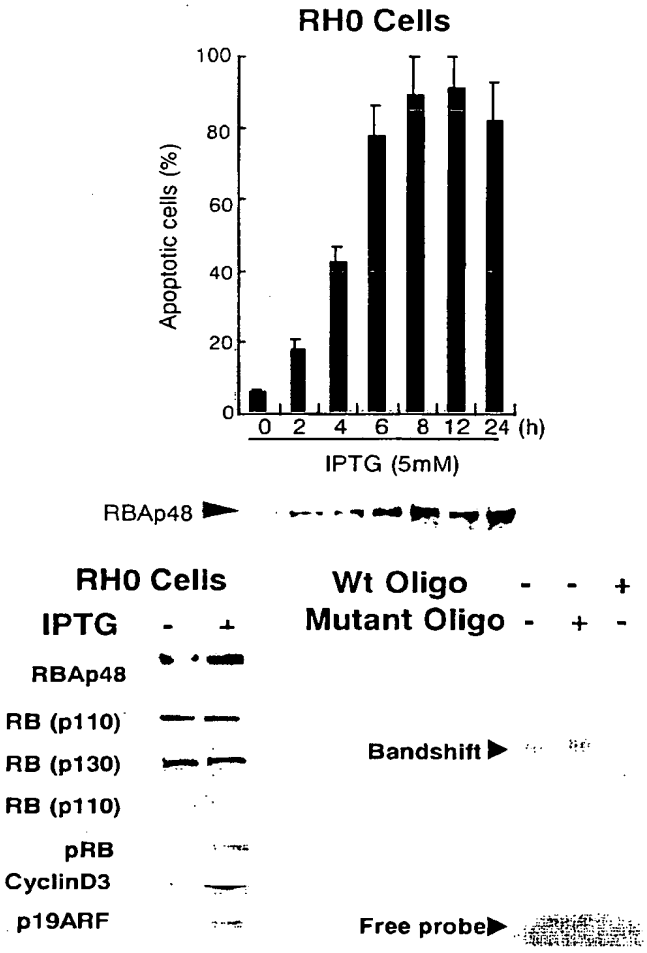
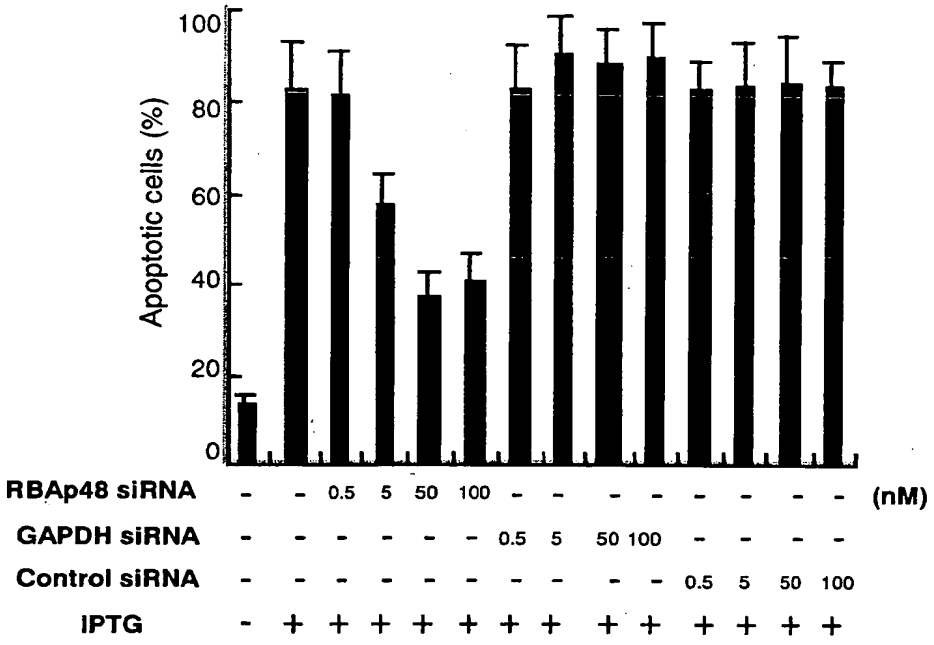

RH0 Cells
100
80
60
40
20
0
Apoptotic cells (%)
0 2 4 6 8 12 24 (h)
IPTG (5mM)
RBAp48
RH0 Cells
IPTG - +
RBAp48
RB (p110)
RB (p130)
RB (p110)
pRB
CyclinD3
p19ARF
Wt Oligo - - +
Mutant Oligo - + -
Bandshift
Free probe

Fig. 6


Apoptotic cells (%)
100
80
60
40
20
0
RBAp48 siRNA - - 0.5 5 50 100 - - - - - - - - (nM)
GAPDH siRNA - - - - - - 0.5 5 50 100 - - - -
Control siRNA - - - - - - - - - - 0.5 5 50 100
IPTG - + + + + + + + + + + + + +